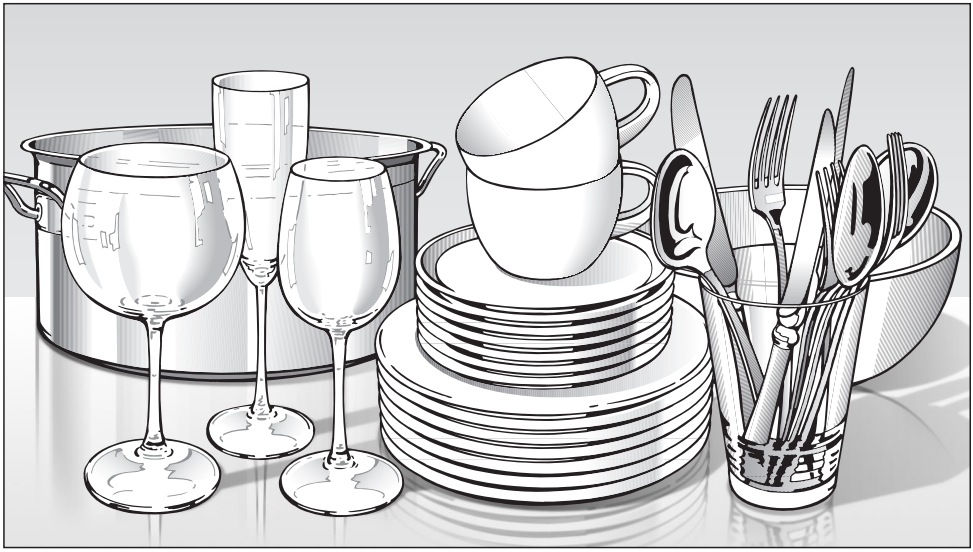
Miele

Operating instructions



for dishwashers

To avoid the risk of accidents or damage to the appliance, it is **essential** to read these instructions as well as the installation plan before it is installed and used for the first time.

en - GB

M.-Nr. 09 048 490

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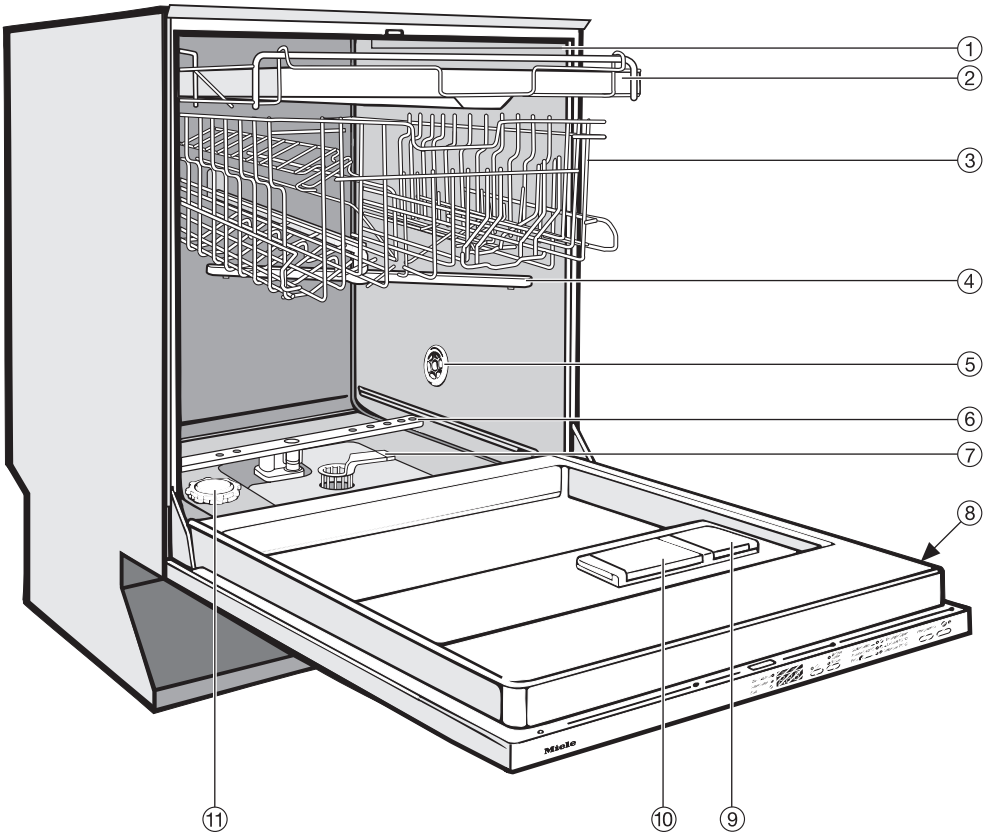
Appliance overview



① Upper spray arm (not visible)

② Cutlery tray (depending on model)

③ Upper basket

④ Middle spray arm

⑤ Air inlet for drying (depending on model)

⑥ Lower spray arm

⑦ Filter combination

⑧ Data plate

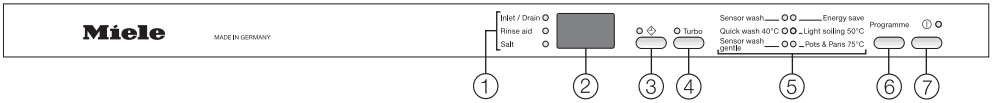
⑨ Rinse aid reservoir

⑩ Dual compartment detergent dispenser

⑪ Salt reservoir

Description of the appliance

Control panel



① Check/Refill indicators

② Delay start display

③ Delay start button ⏲ with indicator light

④ Turbo button with indicator light

⑤ Programmes

⑥ Programme selector button

⑦ On/Off button ⏻ with indicator light

This instruction book applies to several different dishwasher models.
The specific dishwasher models are referred to as follows:
Standard = 80.5 cm high dishwashers (integrated)
and 84.5 cm high dishwashers (freestanding)
XXL = 84.5 cm high dishwashers

This appliance conforms to current safety requirements. Inappropriate use can, however, lead to personal injury and damage to property.
To avoid the risk of accidents and damage to the appliance, please read these instructions carefully before using it for the first time. They contain important information on its safety, use and maintenance.
Keep these instructions in a safe place and pass them on to any future owner.

Correct application

▶ This dishwasher is not designed for commercial use. It is intended for use in domestic households and in similar working and residential environments such as:

– Shops

– Offices and showrooms

and by residents in establishments such as

– Hostels and guest houses.

▶ This dishwasher is not intended for outdoor use.

▶ It must only be used as a domestic appliance as specified in these operating instructions, for cleaning domestic crockery and cutlery.
Any other usage is not supported by the manufacturer and could be dangerous. Miele cannot be held liable for damage resulting from incorrect or improper use or operation.

▶ This dishwasher is not intended for use by people with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised whilst using it, or have been shown how to use it correctly by a person responsible for their safety.

Safety with children

▶ This appliance is not a toy! To avoid the risk of injury, keep children well away and do not allow them to play in or around the dishwasher or to use the controls. They will not understand the potential dangers posed by it. They should be supervised whenever you are working in the kitchen. There is also a danger that children playing might shut themselves in the dishwasher.

▶ Older children may only use the dishwasher when its operation has been clearly explained to them and they are able to use it safely, recognising the dangers of misuse.

▶ Keep children away from detergents. Dishwasher detergents contain irritant and corrosive ingredients which can cause burning in the mouth, nose and throat if swallowed, or inhibit breathing. Keep children away from the dishwasher when the door is open. There could still be detergent residues in the cabinet. Consult a doctor immediately if your child has swallowed or inhaled detergent.

Technical safety

▶ Before setting up the appliance, check it for any externally visible damage. Under no circumstances should you use a damaged appliance. It could be dangerous.

▶ The dishwasher must only be plugged into the electricity supply via a suitable switched socket. The electrical socket must be easily accessible after the dishwasher is installed so that it can be disconnected from the electricity supply at any time. (See "Electrical connection").

▶ There must be no electrical sockets behind the dishwasher. Danger of overheating and fire risk if the dishwasher were to be pushed up against a plug.

▶ The dishwasher must not be installed under a hob. The high radiant temperatures which are sometimes generated by a hob could damage the dishwasher. For the same reason it should not be installed next to open fires or other appliances which give off heat, such as heaters etc.

▶ Do not connect the dishwasher to the mains supply until it has been fully installed and any adjustment has been made to the door springs.

▶ Before connecting the appliance, check that the connection data on the data plate (voltage, frequency and connected load) match the mains electricity supply. If in any doubt, consult a qualified electrician.

▶ The electrical safety of this appliance can only be guaranteed if correctly earthed. It is most important that this basic safety requirement is observed and regularly tested and where there is any doubt the electrical system in the house should be checked by a qualified electrician.
The manufacturer cannot be held liable for the consequences of an inadequate earthing system (e.g. electric shock).

▶ Do not connect the appliance to the mains electricity supply by a multi-socket adapter or an extension lead. These do not guarantee the required safety of the appliance (e.g. danger of overheating).

▶ This appliance must not be used in a non-stationary location (e.g. on a ship).

▶ The plastic housing of the water connection contains an electrical component. The housing must not be submerged in water.

▶ There are electrical wires in the water inlet hose. Never cut the water inlet hose, even if it is too long.

▶ The integrated Waterproof System offers protection from water damage, provided the following conditions are met:

– The dishwasher is correctly installed and plumbed in.
– The dishwasher is properly maintained and parts are replaced where it can be seen that this is necessary.
– The stopcock has been turned off when the appliance is not used for a longer period of time (e.g. during holidays).

The Waterproof system will work even if the appliance is switched off. However, the appliance must remain connected to the electricity supply.

▶ A damaged appliance could be dangerous. If the dishwasher gets damaged, switch it off at the mains and call your Miele Dealer or the Miele Service Department.

▶ Unauthorised repairs could result in unforeseen dangers for the user, for which Miele cannot accept liability. Repairs should only be undertaken by a Miele approved service technician.

▶ Faulty components must only be replaced by genuine Miele original spare parts. Only when these parts are fitted can the safety standards of the appliance be guaranteed.

▶ Always disconnect the dishwasher from the electrical supply for maintenance work (switch off at the wall socket and remove the plug).

▶ If the connection cable is damaged it must be replaced with a special cable, available from Miele. For safety reasons this must only be fitted by the Miele Service Department or a Miele authorised service technician.

▶ In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in a clean condition at all times. Any damage which may be caused by cockroaches or other vermin will not be covered by the guarantee.

Installation

▶ The dishwasher must be installed and connected in compliance with the diagram supplied.

▶ The dishwasher must be correctly aligned to ensure problem-free operation.

▶ In order to ensure stability, built-under and integrated dishwashers must only be installed under a continuous worktop which is secured to adjacent cabinetry.

▶ If you want to convert your freestanding dishwasher to a built-under ("U") model, you will need to order the appropriate conversion kit. If you remove the existing plinth, you must replace it with a U-model plinth. This is necessary to avoid the risk of injury caused by protruding metal parts.

▶ The door springs must be adjusted equally on both sides. They are correctly adjusted when the door remains stationary when left open at 45°. It is important that the door is held in place by the springs and cannot fall open.

Correct use

▶ Do not use solvents in the dishwasher. Danger of explosion.

▶ Do not inhale or ingest dishwasher detergent. Dishwasher detergents contain irritant or corrosive ingredients which can cause burning in the nose, mouth and throat if swallowed, or inhibit breathing. Consult a doctor immediately if detergent has been swallowed or inhaled.

▶ Avoid leaving the door open unnecessarily, as you could trip over it.

▶ Do not sit or lean on the opened door. This could cause the dishwasher to tip and be damaged, and you could get injured.

▶ Only use detergent and rinse aid formulated for domestic dishwashers. Do not use washing-up liquid.

▶ Do not use commercial or industrial detergents as these may cause damage, and there is a risk of severe chemical reaction.

▶ Do not fill the rinse aid reservoir with powder or liquid detergent. This will cause serious damage to the reservoir.

▶ Inadvertently filling the salt reservoir with powder or liquid dishwasher detergent will damage the water softener. Make sure you have picked up the correct packet of dishwasher salt before filling the salt reservoir!

▶ Please only use special coarse grained dishwasher salt for reactivation, as other salts may contain insoluble additives which can impair the functioning of the softener.

▶ In an appliance with a cutlery basket (depending on model) cutlery is cleaned and dried more efficiently if placed in the basket with the handles downwards. However, to avoid the risk of injury, place knives and forks etc. with the handles upwards.

▶ Plastic items which cannot withstand being washed in hot water, such as disposable plastic containers, or plastic cutlery and crockery should not be cleaned in the dishwasher. The high temperatures in the dishwasher may cause them to melt or lose shape.

▶ On models with "Delay start", make sure that the dispenser is dry before adding detergent. Wipe dry if necessary. Detergent will clog if poured into a damp dispenser and may not be thoroughly dispersed.

Accessories

▶ Only use genuine Miele original spare parts and accessories with this appliance. If spare parts or accessories from other manufacturers are used, this will invalidate the guarantee, and Miele cannot accept liability.

Disposal of your old dishwasher

▶ Make the door lock inoperative so that children cannot accidentally shut themselves in. Make appropriate arrangements for the disposal of the appliance.

The manufacturer cannot be held liable for damage caused by non-compliance with these Warning and Safety instructions.

Disposal of the packing material

The transport and protective packing has been selected from materials which are environmentally friendly for disposal and should be recycled.

Ensure that any plastic wrappings, bags, etc. are disposed of safely and kept out of the reach of babies and young children. Danger of suffocation.

The packaging consists of the following materials:

Outer packaging:

– Corrugated cardboard made from up to 100% recyclable material, or: Polyethylene (PE) shrink wrap

– Polyproplylene (PP) strapping

Inner packaging:

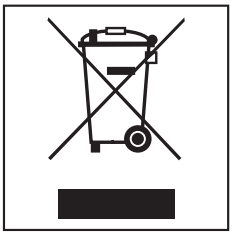
– Chlorine and fluorine free expanded polystyrene (EPS)

– Base, lid frame and support battens made from untreated natural wood from renewable forests.

– Polyethylene (PE) protective wrap

Disposal of your old appliance

Electrical and electronic appliances often contain materials which, if handled or disposed of incorrectly, could be potentially hazardous to human health and to the environment. They are, however, essential for the correct functioning of your appliance. Please do not therefore dispose of it with your household waste.



Please dispose of it at your local community waste collection/recycling centre or contact your Dealer for advice. Ensure that it presents no danger to children while being stored for disposal.

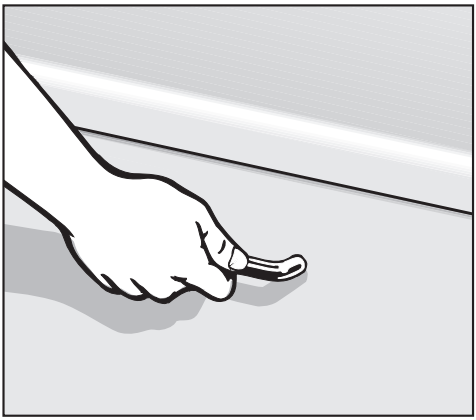
To enable sorting by type of plastic for recycling, all plastic parts of the appliance are labelled with international standard symbols.

Energy saving washing

This dishwasher is exceptionally economical in its use of water and electricity. You can make the most of your appliance by following these tips:

- If your water supply is suitable, this dishwasher can be connected to hot water for further economies. If the water is heated by solar panels, for example, this would be energy efficient.
  However, if your water is heated by electricity we would recommend connection to cold water.
- For most economical dishwashing, make full use of the baskets without overloading the dishwasher.
- Choose the programme to suit the type of crockery being washed and the degree of soiling.
- Select the Energy save programme for energy-saving dishwashing.
- Follow the detergent manufacturer's recommendations on detergent dosage.
- When using powder or liquid detergent, you can use $^1/_3$ less detergent if baskets are only half full.

To open the door



- Pull the handle.

If the door is opened during operation all functions are automatically interrupted.

To close the door

- Push the baskets right in.
- Then lift the door upwards and push until it clicks into position.

Water softener

In order to achieve good cleaning results, the dishwasher needs to operate with soft water. Hard water results in the build-up of calcium deposits on crockery and in the dishwasher.
Mains water with a hardness level higher than 0.7 mmol/l (4 °d – German scale) needs to be softened. This takes place automatically in the integrated water softener. The water softener in this dishwasher is suitable for a water hardness level of up to 12.6 mmol/l (70 °d - German scale).

– The water softener requires dishwasher salt.
  Depending on the water hardness level (≤3.8 mmol/l, or 21 °d German scale), dishwasher salt is not required if combination tablets are being used (see "Detergent").
– The dishwasher must be programmed for the water hardness in your area.
– Your local water authority will be able to advise you of the water hardness level in your area.

Where the water hardness fluctuates e.g. between 6.7 - 9.0 mmol/l (37 - 50 °d), always programme the dishwasher to the higher value (9.0 mmol/l in this example).

In the event of a fault, it will help the service technician if you know the hardness of your local water supply.

■ Enter the water hardness below:

_____ mmol/l or °d

The dishwasher is programmed at the factory for a water hardness level of 2.7 mmol/l (15 °d - German scale).

If this setting corresponds to the hardness of your water, you do not need to do anything more.

If your water is harder or softer, you will need to programme the water hardness level. See following section.

Programming the water hardness level

- Switch the dishwasher off with the On/Off button ⏻, if it is switched on.
- Press and hold the Programme selector button in.
- Switch the dishwasher on using the On/Off button ⏻, and hold the Programme selector button in until the lower right hand programme indicator lights up.

If this does not happen, start the procedure from the beginning again.

- Press the Turbo button twice.

The "Inlet/Drain" check light will flash briefly twice at intervals.

The characters "*P 1 5*" will flash one after the other in the display.
This means that the water hardness level has been set at 15 °d - German scale (2.7 mmol/l) (factory setting).

- Use the Programme selector button to select the value which corresponds to your water hardness level.

Each press on the button moves you up a level. When the highest water hardness level is reached, the setting starts from the beginning again.

- Switch the dishwasher off using the On/Off button ⏻.

°d German scale	mmol/l	°f	Value displayed
1	0.2	2	1
2	0.4	4	2
3	0.5	5	3
4	0.7	7	4
5	0.9	9	5
6	1.1	11	6
7	1.3	13	7
8	1.4	14	8
9	1.6	16	9
10	1.8	18	10
11	2.0	20	11
12	2.2	22	12
13	2.3	23	13
14	2.5	25	14
15	**2.7**	**27**	**15**
16	2.9	29	16
17	3.1	31	17
18	3.2	32	18
19	3.4	34	19
20	3.6	36	20
21	3.8	38	21
22	4.0	40	22
23	4.1	41	23
24	4.3	43	24
25	4.5	45	25
26	4.7	47	26
27	4.9	49	27
28	5.0	50	28
29	5.2	52	29
30	5.4	54	30
31	5.6	56	31
32	5.8	58	32
33	5.9	59	33
34	6.1	61	34
35	6.3	63	35
36	6.5	65	36
37-50	6.7-9.0	67-89	50
51-60	9.2-10.8	91-108	60
61-70	11.0-12.6	110-126	70

Before using the appliance for the first time, you require:

– approx. 2 litres of water,

– approx. 2 kg dishwasher salt*,

– domestic dishwasher detergent*,

– rinse aid* formulated for domestic dishwashers.

*See "Optional accessories".

Every dishwasher is tested at the factory.
There will be residual water in the appliance from this test. It is not an indication that it has been used previously.

Filling the salt reservoir

If the water in your area is very soft and constantly **lower than 0.7 mmol/l (4 °d)**, you do not need to add dishwasher salt. The water softener must, however, still be programmed to correspond to the water hardness level in your area.

Important: Before filling the salt reservoir with dishwasher salt for the **first time**, you must fill it with approx. 2 litres of water to enable the salt to dissolve. Once the dishwasher has been used, there is always sufficient water in the reservoir.

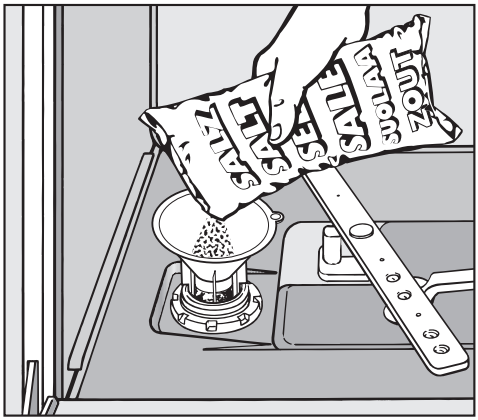
⚠ Inadvertently filling the salt reservoir with powder or liquid dishwasher detergent will damage the water softener. Make sure you have picked up the correct packet of dishwasher salt before filling the salt reservoir!

⚠ Please only use special coarse grained dishwasher salt for reactivation, as other salts may contain insoluble additives which can impair the functioning of the softener.

- Remove the lower basket and unscrew the salt reservoir cap.

Water or saline solution will run out of the reservoir when the cap is removed. It should therefore only be removed in order to refill the salt reservoir.

- Fill the reservoir with approx. 2 litres of water (first use only).



- Place the funnel provided over the salt reservoir and carefully fill with salt until the reservoir is full. The salt reservoir holds approx. 2 kg of salt depending on the brand used.
  As the salt reservoir is filled, displaced water will overflow.
- Clean any excess salt from around the reservoir opening and then screw the cap on again **firmly**.
- Run the Quick wash programme immediately without any crockery in the dishwasher to remove any traces of salt from the cabinet (do not use the Turbo function if your dishwasher has this feature).

Salt indicator

- Fill the salt reservoir with dishwasher salt when the salt indicator light comes on. (If it comes on during a programme, wait until the end of the programme).

After the reservoir has been filled, the water softener is automatically reactivated the next time the dishwasher is run. The salt refill indicator may still be illuminated during this process. It will go out once the salt concentration has reached the correct level.

The salt refill indicator will not come on if the dishwasher has been programmed for a water hardness level of less than 0.7 mmol/l (4 °d German scale).

⚠ After filling the the salt reservoir, run the Quick wash programme immediately without any crockery in the dishwasher to remove any traces of salt from the cabinet (do not use the Turbo function if your dishwasher has this feature).

Switching off the refill indicators

If you only ever use combination products containing salt and rinse aid in your dishwasher, you can switch both of these indicators off if you wish.

- Switch the dishwasher off using the On/Off button ⏻.
- Press the programme selector button in, and **whilst holding it in** switch the dishwasher on using the On/Off button ⏻.
  Keep the Programme selector button pressed in until the lower right hand programme indicator comes on.

If this does not happen, start the procedure from the beginning again.

- Press the Turbo button 9 times.

The Turbo indicator will flash briefly 9 times at intervals.

The characters flashing in the display will show whether the refill indicators are switched on or off.

– "*P 1*": the refill indicators are switched on.

– "*P 0*": the refill indicators are switched off.

- If you want to change the setting, press the Programme selector button.

The setting is now stored in memory.

- Switch the dishwasher off using the On/Off button ⏻.

If you switch to using detergent that does not contain salt or rinse aid, it is important to remember to replenish the salt and rinse aid and to switch the refill indicators back on.

Rinse aid

Rinse aid is necessary to ensure water does not cling and leave marks on crockery during the drying phase and helps crockery dry faster after it has been washed.
Rinse aid is poured into the storage reservoir and the amount set is dispensed automatically.

⚠ Inadvertently filling the rinse aid reservoir with powder or liquid detergent will always cause serious damage to the reservoir. Only pour rinse aid formulated for domestic dishwashers into the reservoir.

Alternatively, it is possible to use

– Household vinegar with a max. 5% acid content

or

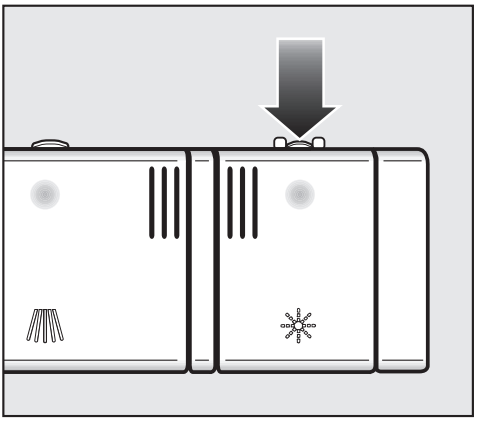
– Liquid citric acid with up to 10% acid content.

  The resulting rinsing and drying quality will not, however, be as good as when rinse aid is used.

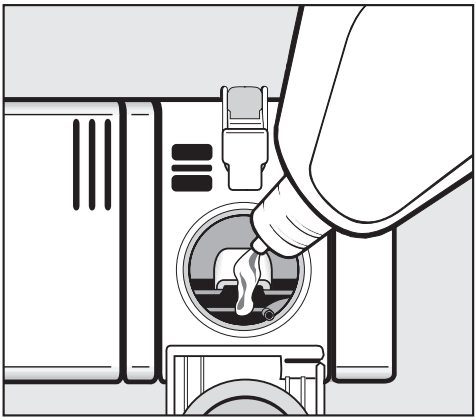
⚠ Do not use vinegar with a higher acid content (e.g. vinegar essence containing 25% acid). This would damage the dishwasher.

If you only ever use combination products containing rinse aid in your dishwasher, you do not need to add rinse aid.

Adding rinse aid



■ Press the button on the lid of the rinse aid reservoir in the direction of the arrow until the flap springs open.



- Add rinse aid only until it is visible in the opening.

The rinse aid reservoir holds approx. 110 ml.

- Close the flap firmly so that it clicks into place. Otherwise water can enter the rinse aid reservoir during a programme.
- Wipe up any spilled rinse aid. This prevents over-foaming occurring during the next programme.

Rinse aid indicator

When the light comes on, the reservoir contains sufficient rinse aid for 2 - 3 programmes only.

- Add rinse aid in plenty of time.

If you only ever use combination products containing salt and rinse aid in your dishwasher, you can switch both of the indicators off if you wish (see "Before using for the first time - Switching off the refill indicators").

If you switch to using detergent that does not contain salt or rinse aid, it is important to remember to replenish the salt and rinse aid and to switch the refill indicators back on.

Setting the rinse aid dosage

The rinse aid dosage can be set from approx. 0-6 ml. It is set to a recommended setting of approx. 3 ml at the factory.

If the Adjust Sensor wash function has been activated, the amount of rinse aid dispensed in the Sensor wash programme can be higher than that set.

If spots appear on crockery and glassware:

- Increase the rinse aid dosage.

If clouding or smearing appears on crockery and glassware:

- Decrease the rinse aid dosage.
- Switch the dishwasher off using the On/Off button ⏻.
- Press the programme selector button in, and **whilst holding it in** switch the dishwasher on using the On/Off button ⏻.
  Keep the Programme selector button pressed in until the lower right hand programme indicator comes on.

If this does not happen, start the procedure from the beginning again.

- Press the Turbo button three times.

The Turbo indicator light will flash briefly three times at intervals.

P 3 will flash in the display.
This means that the rinse aid dosage has been set to 3 ml at the factory.

The dosage set will show in the display after the *P*.

- Use the Programme selector button to select the rinse aid dosage you want.
  The dosage amount alters each time you press the button.

The programmed rinse aid dosage is now stored in memory.

- Switch the dishwasher off using the On/Off button ⏻.

Note

Remove coarse food residues from crockery.

There is no need to rinse items under running water.

⚠ Do not wash items soiled with ash, sand, wax, lubricating grease or paint in the dishwasher.
These substances will damage the dishwasher.

Crockery can be loaded anywhere in the baskets, but the following notes should be observed:

– Do not place crockery and cutlery inside other pieces where they may be concealed.

– Load the crockery so that water can access all surfaces. This ensures that they get properly cleaned.

– Make sure that all items are securely positioned.

– Hollow items such as cups, glasses, pans, etc. must be inverted in the basket.

– Tall, narrow, hollow items, e.g. champagne glasses, should be placed in the centre of the basket to ensure better water coverage.

– Wide based items should be placed at an angle so that water can run off them freely.

– The spray arms must not be blocked by items which are too tall or hang through the baskets.
If in doubt, test for free movement by manually rotating the spray arms.

– Make sure that small items cannot fall through the holders in the baskets. Small items, e.g. lids, should therefore be placed in the cutlery tray or cutlery basket (depending on model).

Some foodstuffs may contain natural dyes, e.g. carrots, tomatoes or ketchup. Plastic items in the dishwasher may discolour if large quantities of these foodstuffs find their way into the appliance on the crockery. The stability of plastic items is not affected by this discolouration.

Items not suitable for dishwashers:

– Wooden cutlery and crockery or items with wooden parts: these may discolour and fade. The glue used in these items is not dishwasher-proof and wooden handles may come loose after being washed in a dishwasher.

– Craft items, antiques, valuable vases and decorative glassware are also not suitable for dishwashers.

– Plastic items which are not heat resistant: the high temperatures in the dishwasher may cause them to melt or lose shape.

– Copper, brass, tin and aluminium items may discolour or become matt.

– Colours painted over a glaze may fade after a number of washes.

– Clouding may occur on glasses after frequent washing. Do not wash delicate glassware, or glassware containing lead crystal in a dishwasher.

We recommend:

– When purchasing new crockery and cutlery, make sure they are dishwasher-proof.

– If delicate glassware is washed in the dishwasher ensure that only very low temperatures are used (see programme chart), or a special glass-care programme is used (depending on model). This will reduce the risk of clouding.

– If in doubt, wash delicate glassware by hand.

Please note

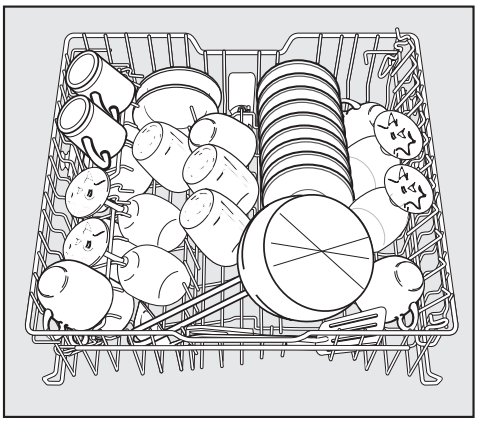
Silverware previously cleaned with a **silver polish** may still be damp or spotted at the end of a programme, where water has not run off smoothly. It may need to be rubbed dry with a soft cloth.

Silver which has been in contact with foods containing sulphur can discolour. These include egg yolk, onions, mayonnaise, mustard, pulses, fish, fish brine and marinades.

⚠ Aluminium components (e.g. grease filters) must not be cleaned with caustic alkaline commercial or industrial cleaning agents. These may damage the material, or in extreme cases, cause a severe chemical reaction. See section "Adding detergent" for information on suitable detergents.

Upper basket

⚠ For safety reasons, do not operate the dishwasher without the upper and lower baskets in place.



- Use the upper basket for small, lightweight and delicate items such as cups, saucers, glasses, dessert bowls, etc. Shallow pans or casserole dishes can also be placed in the upper basket.
- Long items such as soup ladles, mixing spoons and long knives should be placed lying down across the front of the upper basket.

Cup rack (depending on model)

- To make room for tall items, raise the rack upwards.

Glasses can be arranged along the cup rack to give them some support during the programme.

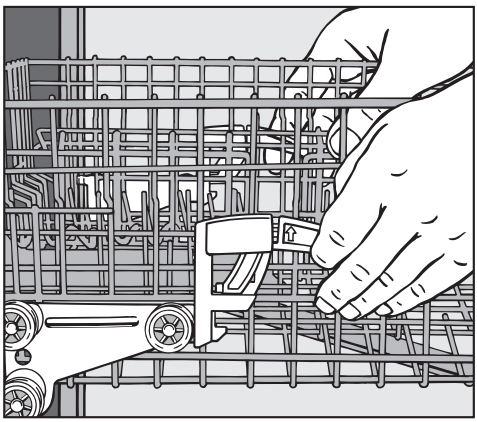
- Lower the cup rack and lean the glasses against it.

Adjusting the upper basket

In order to gain more space for taller pieces of crockery in the lower or upper basket, the upper basket can be adjusted on three levels with 2 cm between each level.

The upper basket can also be set at an angle with one side high and the other side low. This can be useful to help prevent water being left in deep dishes etc. Ensure, however, that the basket can slide smoothly in and out of the cabinet. It is better to adjust the basket before loading it.

- Pull out the upper basket.



To adjust the upper basket upwards:
- Lift the basket up until it clicks into place.

To adjust the upper basket downwards:
- Pull upwards on the levers at either side of the upper basket.
- Adjust the basket to the desired height and then push the levers securely back down into position.

Depending on the setting of the upper basket, the following plate dimensions can be accommodated.

Dishwasher with cutlery tray
(see data plate for model number)

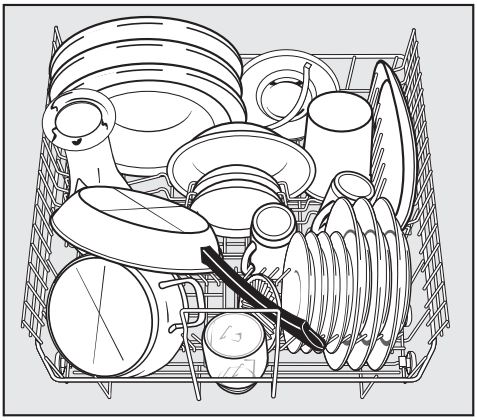
Upper basket level	Plate ∅ in cm		
	Upper basket		Lower basket
	Stan-dard	XXL	
Top	15	19	31
Middle	17	21	29
Bottom	19	23	27

Dishwasher with cutlery basket
(see data plate for model number)

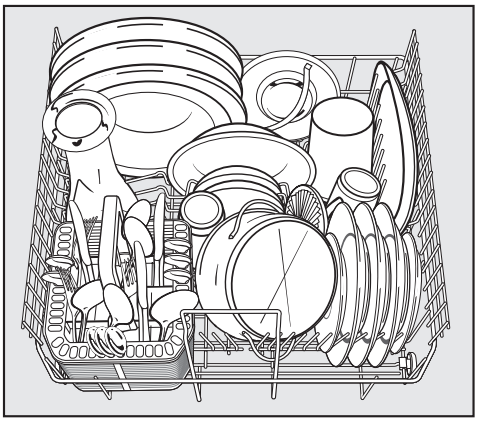
Upper basket level	Plate ∅ in cm		
	Upper basket		Lower basket
	Stan-dard	XXL	
Top	20	24	31
Middle	22	26	29
Bottom	24	28	27

Lower basket

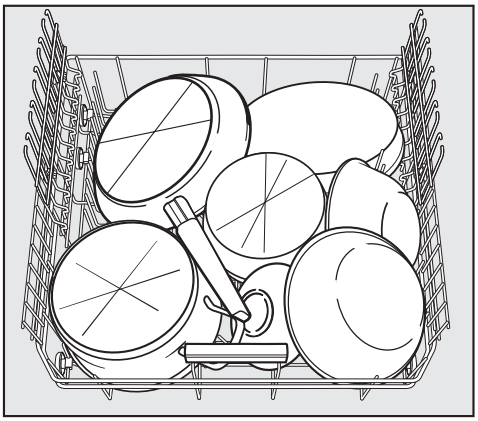
■ For larger and heavier items such as plates, serving platters, saucepans, bowls, etc.
Glasses, cups and small items such as saucers can also be placed in the lower basket.
Do not place thin, delicate glassware in the lower basket.



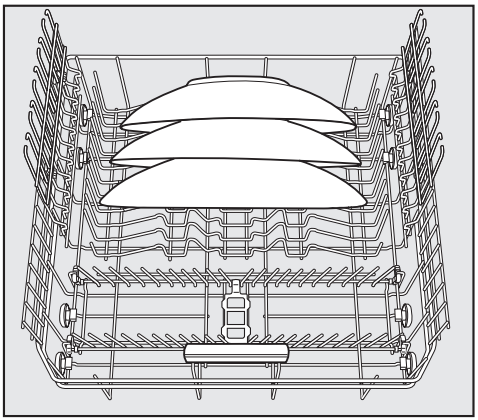
Dishwashers with cutlery tray



Dishwashers with cutlery basket



Heavily soiled items

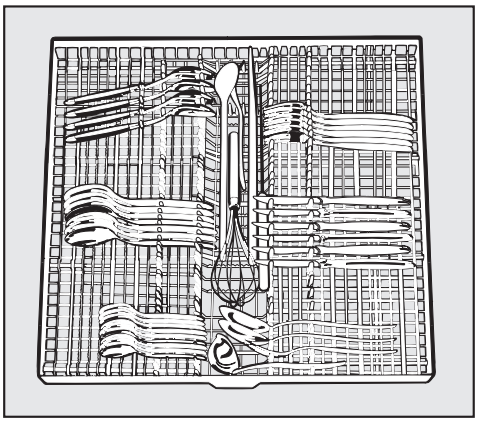


■ Place large platters and dishes in the centre of the lower basket.

When tilted, plates up to 35 cm in diameter can be accommodated.

Cutlery

Cutlery tray (depending on model)

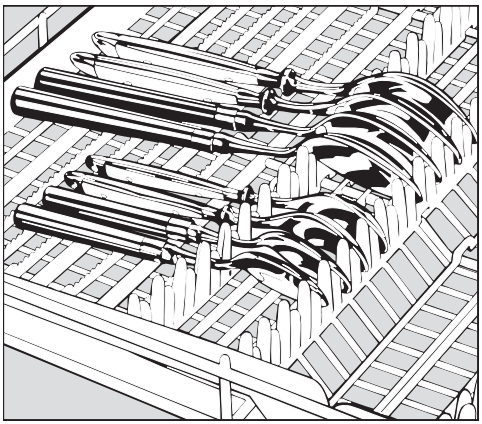


- Arrange the cutlery in the tray as shown.

To make unloading much easier, cutlery should be grouped in zones, one for knives, one for forks, one for spoons, etc.

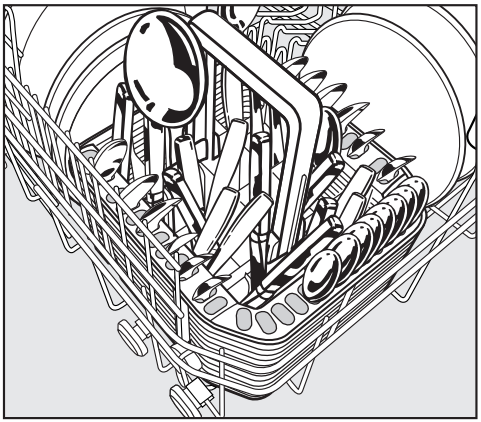
Spoon heads should be placed in contact with at least one of the serrated retainers on the base of the cutlery tray to ensure that water runs off them freely.

The upper spray arm must not be blocked by items which are too big (e.g. cake slices).



If spoon handles do not fit between the holders, then lay them the other way round.

Cutlery basket (depending on model)

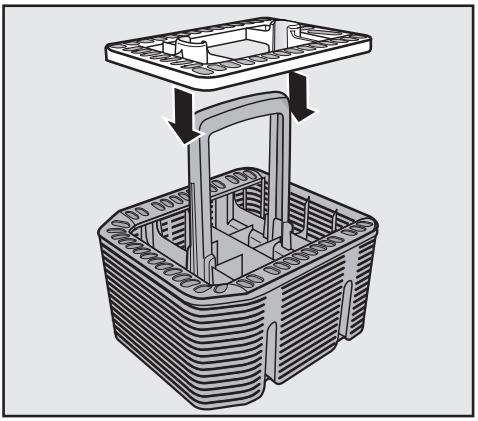


The cutlery basket can be placed anywhere on the front rows of spikes in the lower basket.

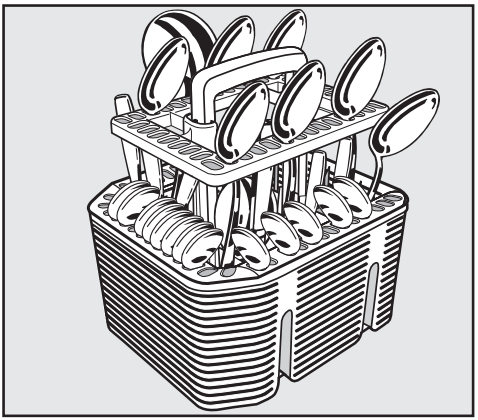
- To avoid the risk of injury, knives and forks should be placed with the handles upwards in the basket. However, cutlery placed handle down in the basket will come out cleaner and drier.
- Place small items of cutlery in the individual slots on three sides of the cutlery basket.

Cutlery insert for the cutlery basket

Use the insert supplied for heavily soiled items of cutlery.
The insert separates the items so that they can be more easily accessed by water.



- Fit it onto the cutlery basket if required.



- Insert cutlery with the handles facing downwards, and distribute them evenly along the insert.

Detergent

⚠ Only use detergents formulated for domestic dishwashers. Do not use washing-up liquid.

Active ingredients

Modern detergents contain various active ingredients, the most important of which are:

– Phosphates to prevent calcification.

– Alkalis to aid removal of dried on soiling.

– Enzymes to break down starch and loosen protein.

– Oxygen based bleaching agents to remove coloured stains (e.g. tea, coffee, tomato sauce).

Most dishwasher detergents contain phosphates and are mildly alkaline with enzymes and oxygen based bleaching agents. Phosphate free products are rare.

Types of detergent:

– Powder and liquid gel detergents. These detergents allow you to adjust the amount dispensed according to the amount of load and level of soiling.

– Tab detergents. These are suitable for most levels of soiling.

You can also buy combination products (see "Additional functions, DetergentAgent", if applicable).
In addition to detergent, these products contain rinse aid and salt substitutes. They are available as "3 in 1" or when they also contain other components such as glass and stainless steel protective additives and enhanced cleaning power, as "5 in 1", "7 in 1" , "All in 1", etc. Refer to the manufacturer's packaging as to whether combination products are suitable for the water hardness level in your area.
Please note that the cleaning and drying results of combination detergents can vary greatly.

For optimum cleaning and drying results, use Miele dishwasher detergent and add Miele salt and Miele rinse aid separately. See "Optional accessories".

Dispensing

■ Follow the dosage recommended by the manufacturer on the packaging.

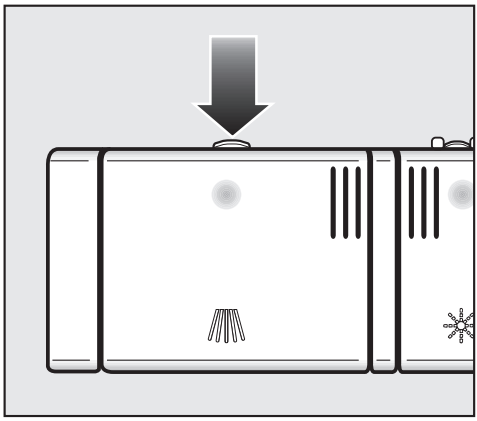
■ Unless directed otherwise, use one detergent tab or add 20 to 30 ml detergent to compartment II, depending on the level of soiling. With very heavy soiling you can also add a small amount of detergent to compartment I (see "Programme chart").

■ Tabs may not dissolve completely when the Quick wash 40 °C programme is used.

Failure to dispense the recommended amount of detergent may impair cleaning results.

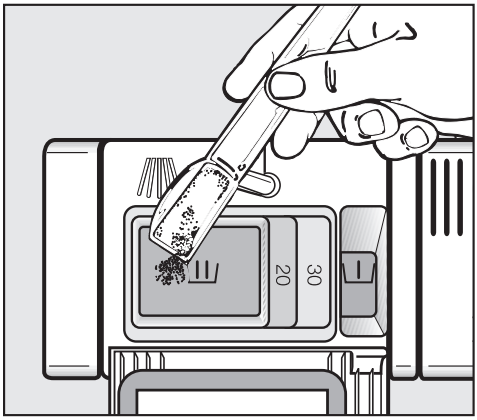
⚠ Avoid inhalation of powder detergents and do not ingest dishwasher detergent. Dishwasher detergents contain irritant or corrosive ingredients which can cause burning in the nose, mouth and throat if swallowed, or inhibit breathing. Consult a doctor immediately if detergent has been swallowed or inhaled. Keep detergent and other household agents out of the reach of children at all times. Keep children away from the dishwasher when the door is open. There could still be detergent residues in the cabinet. To avoid the danger of children coming into contact with the dishwasher detergent, only add detergent just before starting the programme and close the door, activating the child safety lock (if your dishwasher is fitted with one).

Adding detergent



■ Press the opening catch on the detergent dispenser. The flap will spring open.

The flap is always open at the end of a programme.



■ Add the required amount of detergent and close the flap.

■ Make sure that the detergent packaging is properly closed after use to avoid it getting damp and becoming lumpy.

For information

Compartment I holds max. 10 ml, Compartment II holds max. 50 ml.

There are markings in compartment II to assist with dispensing: 20, 30. The marks indicate a level of approx. 20 or 30 ml when the door is open in a horizontal position.

Switching on

- Open the stopcock, if it is closed.
- Open the door.
- Make sure the spray arms are not obstructed.
- Switch the dishwasher on with the On/Off button ⏻.

The On/Off indicator light ⏻ and the indicator for the last used programme will light up.

Selecting a programme

Choose your programme according to the type of load and how dirty it is.

The different programmes and their uses are described in the **Programme chart** later on in this booklet.

- Select the programme required with the programme selector button.

The indicator light next to the selected programme will come on.

You can now select additional functions (see "Additional functions").

If any additional functions are selected, the appropriate indicators will also light up.

Starting the programme

- Start the programme by closing the door.

A programme can only be cancelled in the first few minutes. Otherwise the programme must continue to the end so that important programme stages (e.g. reactivating the water softener) are not omitted.

Standby

To save energy, the dishwasher will switch to Standby mode a few minutes after the last time a button has been pressed or a few minutes after the end of the programme. The indicator lights and the display, if applicable, will go out and only the On/Off indicator ⏻ will flash slowly.

- To switch the indicators and display back on again, press the On/Off button ⏻.
  This will switch off Standby.

If the dishwasher is not switched off at the end of the programme, it will switch off completely after a few minutes in Standby mode (see "Additional functions, Optimise standby").

The dishwasher will not switch into Standby mode whilst a programme is running, if salt or rinse aid needs to be replenished or there is a fault.

If you only use combination products containing salt and rinse aid in your dishwasher, you can switch the refill indicators off so that the dishwasher will go into Standby despite a lack of salt or rinse aid (see "Before using for the first time"). You cannot switch off fault indicators.

At the end of the programme

- Open the door slightly to check that the programme has finished.

The indicator light next to the programme selected goes out when the programme has finished.

If the programme indicator light is still flashing, the programme has not yet finished. Close the door again to allow the programme to finish.

The drying fan will continue to run for a few minutes at the end of the Quick wash programme.

You can now empty the dishwasher.

⚠ To prevent the risk of steam damage to the worktop edging above the dishwasher, it is advisable to leave the door closed until you are ready to unload the crockery. Alternatively you can open the door fully until the crockery is cool enough to unload. Do not leave the door only partially open.

Switching off

At the end of a programme:

- Open the door.
- Switch the dishwasher off using the On/Off button ⏻.

The dishwasher will continue to use electricity until it is switched off with the On/Off button ⏻.

If the dishwasher is not going to be used for a longer period of time, e. g. whilst on holiday, the stopcock should be closed.

Unloading the dishwasher

Dishes tend to break and chip more easily when they are hot.
Allow the dishes to cool until they are comfortable enough to handle before unloading them.

If you open the door fully after switching off, the dishes will cool much faster.

First unload the lower basket, then the upper basket and finally the cutlery tray (depending on model).
This will prevent water drops from the upper basket and cutlery tray from falling onto the dishes in the lower basket.

Interrupting a programme

A programme is interrupted as soon as the door is opened.
If the door is closed again, the programme will continue from the point it was at before the door was opened.

⚠ Water in the dishwasher may be hot. Danger of scalding.
Only open the door if absolutely necessary and exercise extreme caution when doing so. Before closing the door again, leave it ajar for approx. 20 seconds. This will enable the temperature in the wash cabinet to settle. Then close the door firmly making sure that it clicks into place.

Changing a programme

If the detergent dispenser flap has already opened, do not change the programme.

If a programme has already started and you wish to change it, proceed as follows:

- Open the door.
- Switch the dishwasher off using the On/Off button ⏻.
- Switch the dishwasher on again with the On/Off button ⏻.
- Select the programme required with the programme selector button.
- Start the programme by closing the door.

Turbo

The Turbo function is used to reduce the duration of programmes in which this function is available.

In order to achieve optimum cleaning results, consumption rates are increased when Turbo has been selected.

If a full programme is not yet required the Turbo function can be used in conjunction with the Quick wash programme to rinse dirty crockery, using cold water only and without a drying cycle.

- Open the door.
- Switch the dishwasher on with the On/Off button ⏻.

The On/Off indicator light ⏻ will come on.

- Select a programme.
- Press the Turbo button.

The Turbo indicator light will come on.

- The programme can now be started.

The option selected is active on all programmes until the setting is changed.

DetergentAgent

For optimum cleaning results, the dishwasher automatically adjusts the programme sequence to the type of detergent being used. Depending on the programme, this can mean that the running time and energy consumption vary slightly.

Follow the detergent manufacturer's instructions on dosage.

The cleaning and drying performance of different types of detergent can vary greatly.

If you only ever use combination products containing salt and rinse aid in your dishwasher, you can switch the refill indicators off if you wish (see "Before using for the first time - Switching off the refill indicators"). The DetergentAgent function will not be affected by this.

Please make sure that if you start using dishwasher salt and rinse aid again, you switch the refill indicators back on.

Delay start

The start time of a programme can be delayed, e.g. to benefit from economy rates of electricity. A delay start time of between 30 minutes and 24 hours can be selected.

With a delay start time of between 30 minutes and 9 hours 30 minutes, the delay is set in increments of 30 minutes. For 10 hours or more it is set in one hour increments.

When using the Delay start function, make sure that the detergent compartment is dry before adding detergent. Wipe dry with a cloth if necessary. If the compartment is wet, powder detergent can become lumpy and stick to the dispenser, with the result that it is not fully dispensed.
Do not use liquid detergent when selecting Delay start, as it can run into the dishwasher before it is required.

- Open the door.
- Switch the dishwasher on using the On/Off button ⏻.

The On/Off indicator light ⏻ will come on.

- Select the programme required with the programme selector button.
- Press the ◈ button.

The last Delay start time used will appear in the display. The ◈ indicator will light up.

- Set the required time using the ◈ button.

If the ◈ button is kept pressed in, the time will increase automatically up to *24h*. To start at 30 minutes again, press the ◈ button twice.

- Close the door.

The time starts counting down until the programme start time: in 1 hour increments for delay start periods of over 10 hours, and in minutes for delay start periods of under 10 hours.

At the end of the delay period, the programme selected begins automatically. The time left for a programme to run then shows in the display, the ◈ indicator light goes out, and the indicator light for the programme selected comes on.

How the Delay start time is shown in the display:

up to 59 minutes:
e.g. 30 minutes = *30*

between 1 hour and 9 hours 30 minutes:
e.g. 5 hours = *5.00*

10 hours and over:
e.g. 15 hours = *15h*

Starting a programme before the Delay start period has elapsed:

A programme can be started before the Delay start period has elapsed. Proceed as follows:

- Open the door.
- Switch the dishwasher off using the On/Off button ⏻.
- Switch the dishwasher on again with the On/Off ⏻ button.
- Start the programme by closing the door.

Buzzer

A buzzer sounds at the end of the programme or if there is a fault.

You will hear the buzzer at the end of a programme. It will sound four times in bursts of three beeps with a noticeable pause (approx. 15 seconds) in between.

In the event of a fault, the buzzer will sound four times in bursts of three beeps with only a very short pause in between.

The buzzer is activated as standard at the factory.
You can deactivate the buzzer at the end of a programme if you wish. The buzzer which sounds when there is fault cannot be deactivated.

- Open the door.
- Switch the dishwasher off using the On/Off button ⏻.
- Press the Programme selector button in, and **whilst holding it in** switch the dishwasher on using the On/Off button ⏻.
  Keep the programme selector button pressed in until the lower right hand programme indicator comes on.

If this does not happen, start the procedure from the beginning again.

- Press the Turbo button 4 times.

The Turbo indicator will flash briefly 4 times at intervals.

The flashing sequence in the Time display shows what the current setting is.

– "*P 1*": the buzzer is activated

– "*P 0*": the buzzer is deactivated

- If you want to change the setting, press the Programme selector button.

The setting is now stored in memory.

- Switch the dishwasher off using the On/Off button ⏻.

Adjust Sensor wash

You can adjust the Sensor wash programme so that it will remove stubborn soiling in a lightly soiled load.

- Open the door.
- Switch the dishwasher off using the On/Off button ⏻.
- Press the Programme selector button in, and **whilst holding it in** switch the dishwasher on using the On/Off button ⏻.
  Keep the programme selector button pressed in until the lower right hand programme indicator comes on.

If this does not happen, start the procedure from the beginning again.

- Press the Turbo button five times.

The Turbo indicator will flash briefly 5 times at intervals.

The flashing sequence in the display shows what the current setting is.

– "*P 1*": The "Adjust Sensor wash" function is activated.

– "*P 0*": The "Adjust Sensor wash" function is deactivated.

- If you want to change the setting, press the Programme selector button.

The setting is now stored in memory.

- Switch the dishwasher off using the On/Off button ⏻.

Optimise standby

To save energy, the dishwasher will switch to Standby mode a few minutes after the last time a button has been pressed or a few minutes after the end of the programme. The indicator lights and the display will go out and only the On/Off indicator light ⏻ will flash slowly.

If the dishwasher is not switched off at the end of the programme, it will switch off completely after a few minutes in Standby mode.

The Optimise standby function can be deactivated if wished. The display and the indicator lights will not go out, and the time lapse before the dishwasher switches off will increase to approx. 6 hours, resulting in higher energy consumption.

The dishwasher will not switch into Standby mode whilst a programme is running, if salt or rinse aid needs to be replenished or there is a fault.

- Open the door.
- Switch the dishwasher off using the On/Off button ⏻.
- Press the Programme selector button in, and **whilst holding it in** switch the dishwasher on using the On/Off button ⏻.
  Keep the programme selector button pressed in until the lower right hand programme indicator comes on.

If this does not happen, start the procedure from the beginning again.

- Press the Turbo button eight times.

The Turbo indicator will flash briefly 8 times at intervals.

The flashing sequence in the display shows what the current setting is.

– "*P 1*": Optimise standby is activated.

– "*P 0*": Optimise standby is deactivated.

- If you want to change the setting, press the Programme selector button.

The setting is now stored in memory.

- Switch the dishwasher off using the On/Off button ⏻.

Factory default

If you have altered any settings from the factory default, you can re-set them back to the factory default settings as follows:

- Open the door.
- Switch the dishwasher off using the On/Off button ⏻.
- Press the Programme selector button in, and **whilst holding it in** switch the dishwasher on using the On/Off button ⏻.
  Keep the programme selector button pressed in until the lower right hand programme indicator comes on.

If this does not happen, start the procedure from the beginning again.

- Press the Turbo button twelve times.

The Turbo indicator light will give one long flash and two brief flashes at intervals.

The flashing sequence in the display shows what the current setting is.

– "*P 1*": All settings are set to factory default settings.

– "*P 0*": At least one setting has been changed.

- To reset to the factory default settings, press the programme selector button.

The setting is now stored in memory.

- Switch the dishwasher off using the On/Off button ⏻.

Check your dishwasher regularly (approx. every 4 - 6 months). This way faults and problems can be avoided.

⚠ The external surfaces of the dishwasher are susceptible to scratching.
Contact with unsuitable cleaning agents can alter or discolour the external surfaces.

Cleaning the wash cabinet

The wash cabinet is largely self-cleaning, provided that the correct amount of detergent is always used.

If, however, there are limescale or grease deposits in the cabinet, these can be removed with a proprietary dishwasher cleaner* or conditioner*.

Cleaning the door and the door seal

- Wipe the door seals regularly with a damp cloth to remove food deposits.
- When the dishwasher is being loaded, food and drink residues may drip onto the sides of the dishwasher door.
  These surfaces are outside the wash cabinet and are not accessed by water from the spray arms. Any soiling should be wiped off these surfaces before the door is closed.

Cleaning the control panel and door front

⚠ Remove any soiling immediately.

If this is not done it might become impossible to remove and could cause the external surfaces to alter or discolour.

- The control panel should **only** be wiped with a damp cloth.
- Clean the front using a damp Miele microfibre E-cloth* or with a clean sponge and a solution of hot water and washing-up liquid. Then dry with a soft cloth.

To avoid damaging the external surfaces, do not use:

- cleaning agents containing soda, ammonia, acids or chlorides,
- cleaning agents containing descaling agents,
- abrasive cleaning agents, e.g. powder cleaners and cream cleaners,
- solvent-based cleaning agents,
- stainless steel cleaning agents,
- dishwasher cleaner,
- oven sprays,
- glass cleaning agents,
- hard, abrasive sponges and brushes, e.g. pot scourers,
- melamine eraser blocks,
- sharp metal scrapers.

* See "Optional accessories".

Cleaning the filters in the wash cabinet

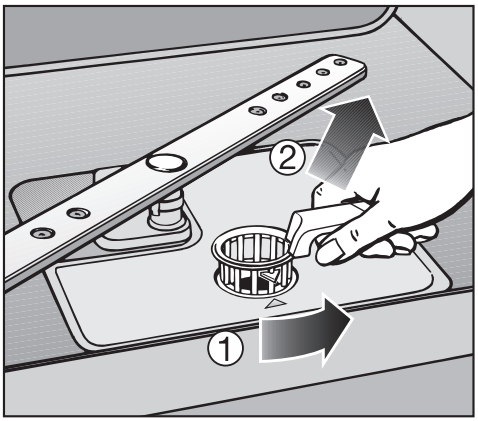
The filter combination in the base of the wash cabinet retains coarse soil from the suds solution, preventing it accessing the circulation system and re-entering the cabinet through the spray arms.

⚠ This dishwasher must not be used without all the filters in place.

Collection of coarse soil may cause the filters to clog. The level of soiling and time it takes before the filters need cleaning will vary depending on use.

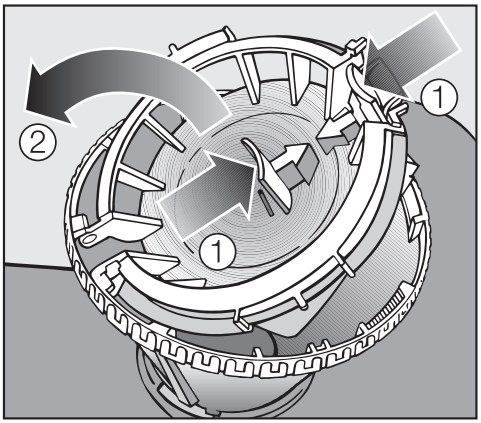
Check the condition of the filters regularly and clean them if necessary.

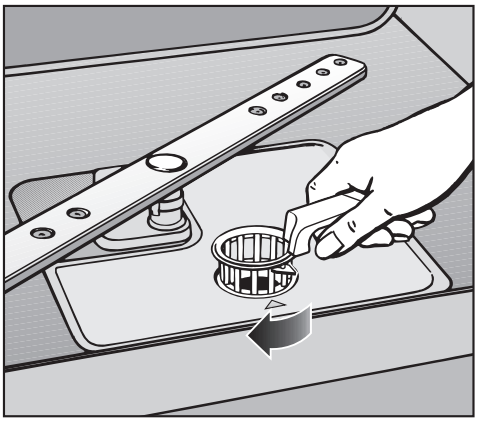
- Switch the dishwasher off.



- Turn the handle anti-clockwise to release the filter combination ①.
- Lift the filter combination out of the dishwasher ②. Remove any coarse particles and rinse the filter well under running water. Use a nylon brush if necessary.

⚠ Make sure that when cleaning the filters, no coarse soil falls into the circulation system, causing a blockage.





To clean the inside of the filter, the flap must be opened:

- Press catches ① together in the direction of the arrows as shown, and open the filter ②.
- Rinse all the filters under running water.
- Then close the flap so that the catch engages.
- Replace the filter combination so that it lies flat in the base of the wash cabinet.
- Then turn the handle clockwise to lock the filter combination in place.

⚠ Take care when you are fitting the filter combination that it is secured in position correctly. Otherwise coarse soil could get into the circulation system and cause a blockage.

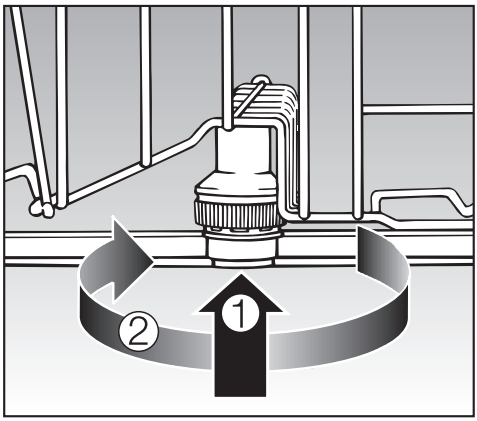
Cleaning the spray arms

Particles of food can get stuck in the spray arm jets and bearings. The spray arms should therefore be inspected and cleaned regularly (approx. every 4 - 6 months).

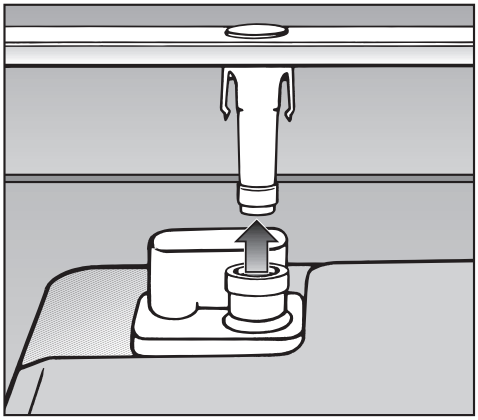
- Switch the dishwasher off.

Remove the spray arms as follows:

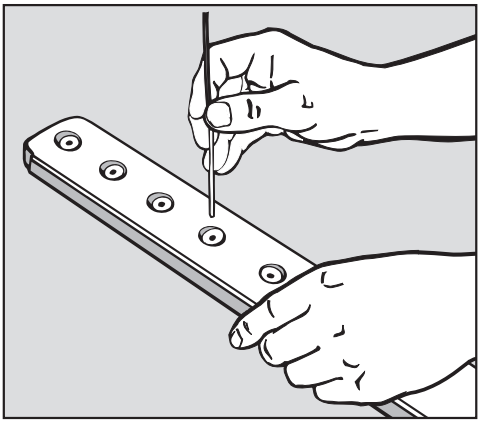
- Take out the cutlery tray (if your dishwasher is fitted with one).
- Push the **top** spray arm upwards to engage the inner ratchet. Then unscrew the spray arm.



- Push the **middle** spray arm upwards ① to engage the ratchet. Then unscrew the spray arm ②.
- Remove the lower basket.



- Pull the **lower** spray arm firmly upwards to remove it.



- Use a pointed object to push food particles into the spray arm jets.
- Rinse thoroughly under running water.
- Replace the spray arms and check that they rotate freely.

With the help of the following guide, minor faults in the performance of the appliance, some of which may result from incorrect operation, can be put right without contacting the Service Department.

⚠ Repairs should only be carried out by a suitably qualified and trained person in strict accordance with current local and national safety regulations. Unauthorised or incorrect repairs could cause personal injury or damage to the appliance.

Technical problems

Problem	Possible cause	Remedy
The dishwasher does not start.	The door is not properly closed.	Push the door firmly shut.
	The appliance is not plugged in.	Insert the plug and switch on at the socket.
	The mains fuse has tripped.	Reset the trip switch or replace the fuse in the plug. (Minimum fuse rating - see data plate).
	The appliance is not switched on.	Press the On/Off button ⏻ and select a programme.
The dishwasher stops during a programme.	The mains fuse has tripped.	– Reset the trip switch or replace the fuse in the plug (minimum fuse rating - see data plate). – If the mains fuse trips again, call the Miele Service Department.

Problem solving guide

Problem	Possible cause	Remedy
The buzzer is sounding. All the Programme indicators flash when the door is open. Fault code FXX shows in the display.	There may be a technical fault.	Switch the dishwasher off using the On/Off button ⏻. After a few seconds: – Switch the dishwasher back on. – Select the programme required with the programme selector button. – Close the door. If the indicator lights flash again, there is a technical fault. – Call the Service Department.
The drain pump works even when the door is open.	Fault F70: The Waterproof System has reacted.	– Close the stopcock. – Call the Service Department.

Water inlet/drain fault		
Problem	**Possible cause**	**Remedy**
The dishwasher stops working shortly after the start of the programme. The buzzer sounds. The Inlet/Drain indicator flashes when the door is opened.	The stopcock is closed.	– Open the stopcock fully.
The dishwasher stops during a programme. The buzzer sounds. The Inlet/Drain check indicator flashes when the door is opened. Fault code FXX shows in the display.		Before rectifying the problem: – Switch the dishwasher off using the On/Off button ⏻.
	Fault F12/F13: Water intake is restricted.	– Open the stopcock fully. – Clean the water inlet filter (see "Maintenance"). – The water pressure at the intake is lower than 30 kPa (0.3 bar). Seek professional advice.
	Fault F11: Water outlet is restricted, water remains in the wash cabinet at the end of a programme.	– Clean the filter combination. See "Cleaning and care". – Clean the drain pump. See "Maintenance". – Clean the non-return valve. See "Maintenance". – Remove any kink in the drain hose.

General problems		
Problem	**Possible cause**	**Remedy**
The indicators have gone out. Only the On/Off indicator ⏻ is flashing slowly.	The indicators have switched off automatically to save energy (Standby mode).	Press the On/Off button ⏻. This switches off Standby.
Detergent residue is left in the dispenser at the end of a programme.	The dispenser was still damp when detergent was added.	Make sure the dispenser is dry before adding detergent.
The detergent dispenser lid cannot be closed properly.	Clogged detergent residue is blocking the catch.	Clean the detergent from the catch.
At the end of a programme there is a film of moisture on the inside of the door and the interior walls.	This is caused by the drying system and does not indicate a fault.	The moisture will dissipate after a while.
Water remains in the wash cabinet at the end of a programme.		Before rectifying the problem: – Switch the dishwasher off using the On/Off button ⏻.
	The filter combination in the wash cabinet is clogged.	Clean the filter combination. See "Cleaning and care".
	The drain pump or non-return valve may be blocked.	Clean the drain pump or the non-return valve. See "Maintenance".
	The drain hose is kinked.	Remove any kink from the drain hose.

Noises		
Problem	**Possible cause**	**Remedy**
Knocking noise in the wash cabinet.	A spray arm is knocking against an item in a basket.	Interrupt the programme, and rearrange the items which are obstructing the spray arm.
Rattling noise in the wash cabinet.	Items of crockery are insecure in the wash cabinet.	Interrupt the programme, and rearrange the items of crockery.
	A foreign object (e.g. a cherry stone) has becomed lodged in the drain pump.	Remove the foreign object from the drain pump (see "Maintenance: Cleaning the drain pump and non-return valve").
Knocking noise in the water pipes.	This may be caused by the on-site installation or the cross-section of the piping.	This has no influence on dishwasher function. If in doubt, contact a suitably qualified plumber.

Unsatisfactory washing result

Problem	Possible cause	Remedy
The dishes are not clean.	The dishes were not loaded correctly.	See notes in "Loading the dishwasher".
	The programme was not powerful enough.	Select a more intensive programme. See Programme chart.
	There is some stubborn soiling although most of the crockery is only lightly soiled (e.g. with tea stains).	Use the "Adjust Sensor wash" function (see "Additional functions").
	Not enough detergent was dispensed.	Use more detergent, or change your detergent.
	Items are blocking the path of the spray arms.	Rearrange the items so that the spray arms can rotate freely.
	The filter combination in the base of the wash cabinet is not clean or is not correctly fitted. This may cause the spray arm jets to get blocked.	Clean and/or fit the filter combination correctly. Clean the spray arm jets. See "Cleaning and care".
	The non-return valve is open and blocked. Dirty water has flowed back into the wash cabinet.	Clean the drain pump and the non-return valve. See "Maintenance - Cleaning the drain pump and non-return valve".
Smearing appears on glassware and cutlery, there is a bluish sheen on the surface of glassware; film can be wiped off.	The rinse aid dosage is set too high.	Reduce the dosage. See "Before using for the first time - Rinse aid".

Problem	Possible cause	Remedy
Dishes, cutlery and glasses are not dry or are flecked.	The amount of rinse aid may be insufficient, or the rinse aid reservoir empty.	Replenish the reservoir, increase the dosage or change the brand of rinse aid (see "Before using for the first time - Rinse aid").
	Crockery was taken out of the cabinet too soon.	Leave it in for longer. See "Operation".
	Combination products have been used which have impaired drying performance.	Change your detergent, or replenish the rinse aid (see "Before using for the first time - Rinse aid").
White residue is visible on cutlery and crockery, clouding occurs on glassware; film can be wiped off.	Not enough rinse aid was used.	Increase the dosage (see "Before using for the first time - Setting the rinse aid dosage").
	There is no salt in the salt reservoir.	Fill the salt reservoir (see "Before using for the first time - Filling the salt reservoir").
	The salt reservoir cap has not been screwed on correctly.	Replace it, making sure that it screws back on correctly.
	An unsuitable combination detergent has been used.	Change your detergent. Use a standard liquid, tablet or powder detergent, and fill the salt and rinse aid reservoirs in the dishwasher.
	The water softener is programmed to a setting which is too low.	Select a higher water softener setting (see "Water softener").

Problem solving guide

Problem	Possible cause	Remedy
Glassware has a brown or blue tinge, and film cannot be wiped off.	This may be caused by the detergent.	Change your detergent.
Glassware is dull and discoloured; film cannot be wiped off.	The glasses are not dishwasher-proof. The surfaces are affected.	There is no remedy. Purchase glassware which is dishwasher-proof.
Tea or lipstick stains have not been completely removed.	The wash temperature of the selected programme was too low.	Select a programme with a higher wash temperature.
	The bleaching effect of the detergent used is too low.	Change your detergent.
Plastic items are discoloured.	Natural dyes e.g. from carrots, tomatoes or ketchup may be the cause. The amount of detergent used or its bleaching effect was not sufficient to deal with natural dyes.	Use more detergent (see "Operation - Detergent"). Discolouration is irreversible.
There are rust stains on cutlery.	The affected items are not corrosion resistant.	There is no remedy. Purchase cutlery which is dishwasher-proof.
	A programme was not run after dishwasher salt was added. Traces of salt have got into the wash cycle.	Always run the "Quick wash" programme, without any crockery in the dishwasher and without selecting the "Turbo" function, after adding dishwasher salt.
	The salt reservoir cap has not been screwed on correctly.	Replace it, making sure that it screws back on correctly.

Cleaning the water inlet filter

A filter is incorporated in the screw connection of the valve on the water inlet hose. The filter must be cleaned when dirty, otherwise insufficient water flows into the wash cabinet.

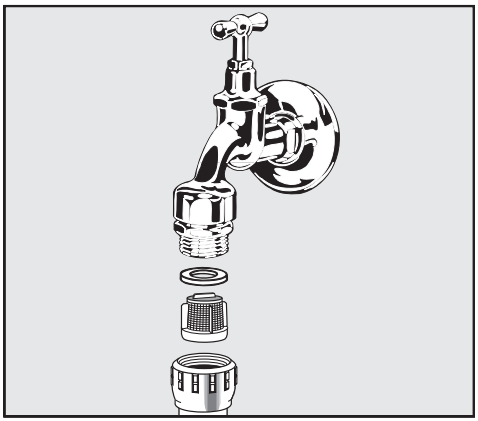
⚠ The plastic housing of the water connection contains an electrical component. It must not be dipped in water.

Recommendation

If the mains water contains a large amount of insoluble substances, we recommend fitting a large-area filter in the connection between the stopcock and the water inlet hose threaded union. This filter is available from the Miele Spares Parts dept.

Cleaning the filter:

- Disconnect the dishwasher from the mains supply. Switch off at the mains socket and withdraw the plug.
- Close the stopcock.
- Unscrew the inlet hose.

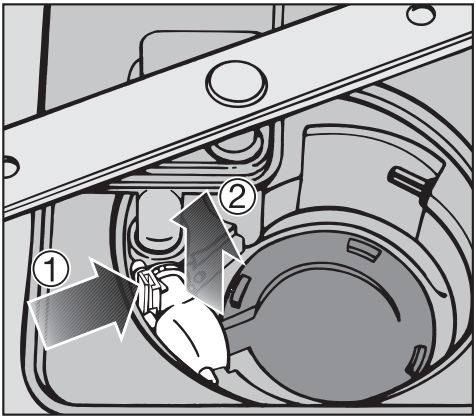


- Carefully remove the seal.
- Withdraw the filter using pointed pliers and rinse clean under running water.
- Replace the filter and seal, making sure they are sitting correctly.
- Reconnect the inlet hose to the stopcock, making sure it goes on correctly and is not cross-threaded.
- Turn on the stopcock gradually to test for leaks. If there is a leak, the inlet hose might not be on securely, or it may have been screwed on at an angle. Unscrew and reconnect the water inlet valve correctly.

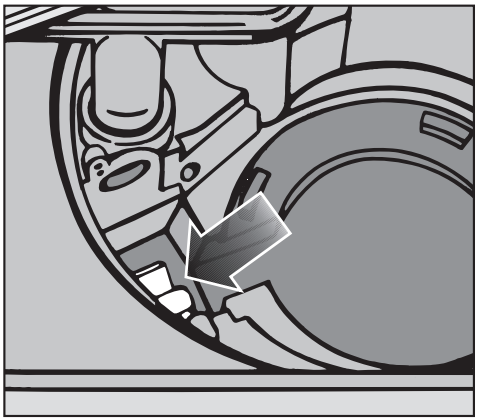
Cleaning the drain pump and non-return valve

If the water has not been pumped away at the end of a programme the drain pump or the non-return valve might be blocked. They are, however, easy to clean.

- Disconnect the dishwasher from the mains supply. Switch off at the mains socket and withdraw the plug.
- Take the filter combination out of the wash cabinet (see "Cleaning and care - Checking the filters in the wash cabinet").
- Scoop the water out of the cabinet using a suitable container or utensil.



- Press the catch for the non-return valve inwards ①.
- Lift out the non-return valve ②, and rinse well under running water.
- Remove all foreign objects from the non-return valve.



The drain pump is situated under the non-return valve (see arrow).

- Remove all foreign objects from the drain pump (watch out for glass or bone splinters which are particularly difficult to detect and could cause injury). Turn the drain pump impeller by hand to check that there are no more obstructions. You will feel a little resistance when you turn the impeller.
- Carefully replace the non-return valve and secure it with the catch.

⚠ Ensure that the catch engages correctly.

Be very careful not to damage sensitive components when cleaning the drain pump and the non-return valve.

To make the most of your dishwasher

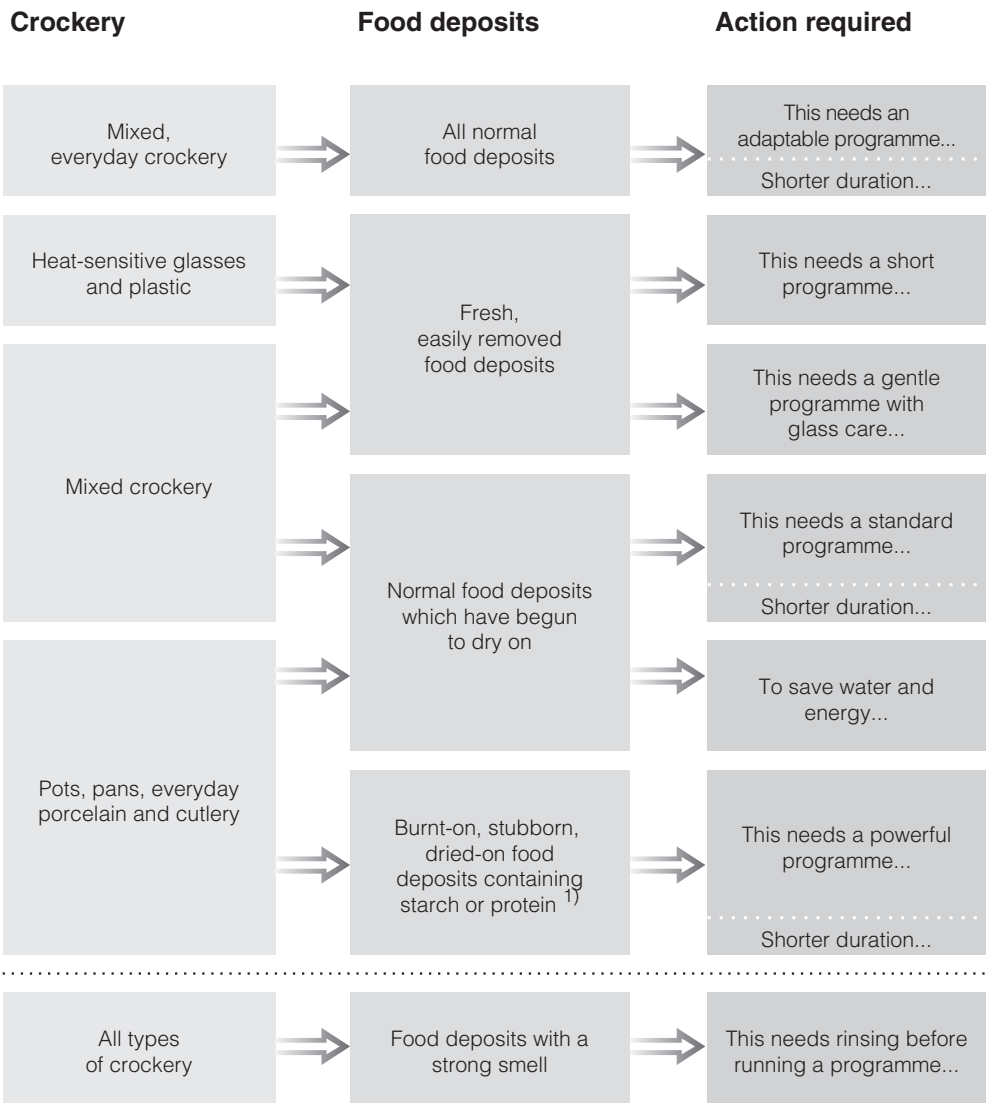
Optional accessories for particular purposes are available from your Miele dealer, from the Miele Spare Parts Department or via the Internet at www.miele-shop.com (some may be supplied as standard, depending on model).

If you would like to …	you will need to order …
... wash a Miele Cappuccinatore	… a Cappuccinatore insert for the upper basket
... wash additional items of cutlery	… a cutlery basket for the lower basket
... wash long-stemmed glassware	… a glass rack for the lower basket

Miele CareCollection

Miele branded cleaning and care products, including dishwasher salt, detergent and rinse aid, are available to order from the Miele Spare Parts Department or via the Internet at www.miele-shop.com.

Programme chart


Crockery
Food deposits
Action required
Mixed, everyday crockery
All normal food deposits
This needs an adaptable programme...
Shorter duration...
Heat-sensitive glasses and plastic
Fresh, easily removed food deposits
This needs a short programme...
Mixed crockery
This needs a gentle programme with glass care...
Normal food deposits which have begun to dry on
This needs a standard programme...
Shorter duration...
Pots, pans, everyday porcelain and cutlery
To save water and energy...
Burnt-on, stubborn, dried-on food deposits containing starch or protein 1)
This needs a powerful programme...
Shorter duration...
All types of crockery
Food deposits with a strong smell
This needs rinsing before running a programme...

1) Food such as potatoes, pasta, rice or casseroles can leave starchy deposits. Deposits containing protein can be left by food such as fried meat, fish or eggs and bakes.

Programme	Detergent	
	Compartment I [2]	Compartment II [2]
Sensor wash + **Turbo option**	–	25 ml or 1 tab
Quick wash 40°C	–	25 ml or 1 tab [3]
Sensor wash gentle	–	25 ml or 1 tab
Light soiling 50°C + **Turbo option**	–	25 ml or 1 tab [3]
Energy save	–	25 ml or 1 tab
Pots & pans 75°C + **Turbo option**	10 ml	25 ml or 1 tab
Quick wash 40°C + Turbo option	–	–

[2] see "Detergent"

[3] In some cases, tabs may not dissolve completely.

Programme chart

Programme	Programme sequence					
	Pre-wash	Main wash °C	Interim rinse		Final rinse °C	Drying
			1	2		
Sensor wash	Variable programme sequence, sensor controlled adjustment according to the amount of crockery and level of food deposits					
	If required	45-65	If required		68	X
Quick wash 40 °C		40	X		45	X
Sensor wash gentle	Variable programme sequence with glass care, sensor controlled adjustment according to the amount of crockery and level of food deposits					
	If required	40-48	If required		55	X
Energy save		45	X		55	X
Light soiling 50 °C		50	X		68	X
Pots & pans 75 °C	X	75	X		68	X

Consumption [1]			Duration [1]	
Energy		Water		
Cold water connection (15 °C) kWh	Hot water connection (55 °C) kWh	Litres	Cold water connection (15 °C) h:min	Cold water connection (55 °C) h:min
1.10-1.60	0.70-1.00	13.0-22.0	1:35-2:34	1:23-2:21
0.70	0.22	13.0	0:38	0:30
0.85-1.20	0.50-0.70	13.0-22.0	1:25-1:55	1:14-1:36
1.05 / 1.04*	0.70 / 0.69*	13.0	2:52	2:42
1.30	0.95	13.0	1:32	1:20
1.70	1.20	17.0	2:40	2:30

1) Values quoted are in accordance with EN 50242. The durations given will vary depending on individual conditions and on data recorded by the sensors.

Selecting the "Turbo" function (depending on model) can reduce the programme duration by up to 50 minutes with an increase in energy consumption of up to 0.2 kWh.

* Dishwashers with cutlery tray / cutlery basket

Repairs

In the event of any faults that you cannot remedy yourself, please contact:

– Your Miele dealer, or

– the Miele Service Department (see back cover for address).

Please note that telephone calls may be monitored and recorded to improve our service.

■ When contacting your Dealer or the Service Department, please quote the model type and number of your appliance, both of which are shown on the data plate on the right hand side of the door.

N.B. A call-out charge will be applied for service visits where the problem could have been resolved as described in these instructions.

Future updates

The programme update function is designed to enable a service technician to update your appliance's electronics in keeping with advances in technology.

Information regarding programme updates will be made known by the Miele Company as and when such developments become available.

For testing institutes

All information required regarding comparison testing and measuring noise levels is given in the **"Comparison tests"** leaflet.
The latest version of this leaflet can be ordered on-line from:

– testinfo@miele.de

■ Please give your postal address, as well as the model type and number of your dishwasher (see data plate).

Electrical connection U.K.

⚠ All electrical work must be carried out by a suitably qualified and competent person, in accordance with current local and national safety regulations (BS 7671 in the UK).

Ensure power is not supplied to the appliance until after installation work has been carried out.

The appliance is supplied with a mains cable with moulded plug ready for connection to a 230-240V mains supply. Please ensure the connection data quoted on the data plate match the household mains supply.

Connection should be made via a suitable switched socket which is easily accessible after installation.

For extra safety it is advisable to protect the appliance with a suitable residual current device (RCD). Contact a qualified electrician for advice.

Do not connect via an extension lead. Extension leads do not guarantee the required safety of the appliance (e.g. danger of overheating).

This appliance must not be connected to the inverter of an autonomous power supply, e.g. a solar power system. When switching the appliance on, a surge in power could trigger the safety cut-out mechanism.

This appliance must not be used with so-called energy saving devices. These reduce the energy supply to the appliance which could then become too warm. Using such devices could alter the specification of the product.

Non-rewireable plugs BS 1363

The fuse cover must be refitted when changing the fuse, and if the fuse cover is lost, the plug must not be used until a suitable replacement is obtained. The colour of the correct replacement cover is that of the coloured insert in the base of the plug, or the colour that is embossed in words on the base of the plug (as applicable to the design of plug fitted).

Replacement fuses should be ASTA approved to BS 1362 and have the correct rating. Replacement fuses and fuse covers may be purchased from your local electrical supplier.

WARNING: THIS APPLIANCE MUST BE EARTHED

The Miele waterproof anti-leak system

Providing your dishwasher has been installed correctly, the Miele waterproof anti-leak system will protect you from water damage throughout its lifetime.

Connection to the water supply

⚠ Water in the dishwasher must not be used as drinking water.

– The dishwasher may be connected to a cold or hot water supply, max. 60 °C. We would only recommend connection to a hot water supply if it is economical, e.g. a solar powered supply. When connected to a hot water supply all programme stages which would otherwise be carried out with cold water will be carried out with hot water.

– The inlet hose is approx. 1.5 m long. A 1.5 metre long flexible metal extension hose, pressure tested to 14,000 kPa/ 140 bar, is available as an optional accessory if required.

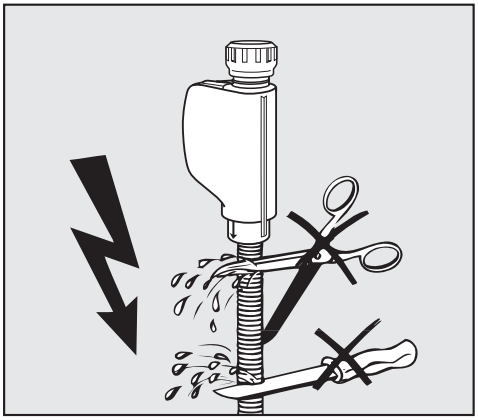
– A stopcock with a $^{3}/_{4}$" male thread must be provided on site.

– This appliance is constructed to comply with IEC/EN/DIN 61770 // VDE 0700 Section 600, and may be connected to a suitable supply without an extra non-return valve if national regulations permit.

– The water pressure (flow pressure at the take-off point) must be between 30 and 1000 kPa (0.3 and 10 bar). If the water pressure is too high, a pressure reducer valve must be fitted.

After connecting the dishwasher to the water supply, check that all plumbing connections are watertight.

⚠ To avoid any damage to the appliance, the dishwasher must only be connected to a fully vented plumbing system.



⚠ The inlet hose must **not** be shortened or damaged in any way as it contains electrical components (see illustration).

Drainage

– The appliance drainage system is fitted with a non-return valve, which prevents dirty water from flowing back into the dishwasher via the drain hose.

– The dishwasher is supplied with approx. 1.5 m of flexible drain hose with an internal diameter of 22 mm.

– The drain hose can be extended using a connection piece to attach a further length of hose.
The drainage length must not be longer than 4 m, and the delivery head must not exceed 1 m.

– If the hose is to be directly fitted to the drainage outlet on site, use the hose clip supplied (see installation diagram).

– The hose can be directed to the left or the right of the appliance.

– The on-site connector for the drain hose can be adapted to different widths of hose. If the connector protrudes too far into the drain hose, it will need to be shortened. Otherwise the drain hose may become blocked.

– The drain hose must not be shortened.

⚠ Make sure that there are no kinks in the hose, and that it is not squashed or stretched.

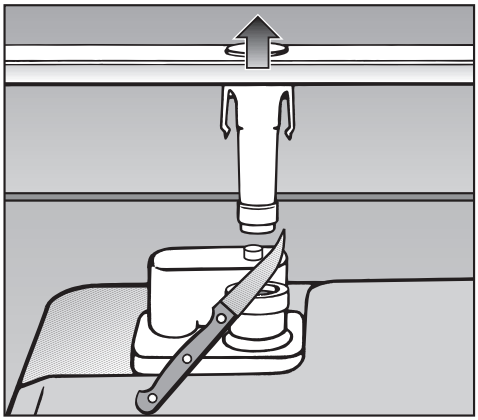
After connecting the dishwasher to the drainage system, check that all plumbing connections are watertight.

Venting the drainage system

If the on-site drain connection is situated lower than the guide path for the bottom basket rollers in the open door, the drainage system must be vented. Otherwise a siphoning effect during a programme can cause the appliance to empty itself of water.

To vent it:

■ Open the dishwasher door fully.



■ Pull the lower spray arm firmly upwards to remove it.

■ Cut off the top of the vent valve in the wash cabinet.

Technical data

Dishwasher model	Standard	XXL
Height	80.5 cm (adjustable + 6.5 cm)	84.5 cm (adjustable + 6.5 cm)
Height of building-in recess	Min. 80.5 cm (+ 6.5 cm)	Min. 84.5 cm (+ 6.5 cm)
Width	59.8 cm	59.8 cm
Width of building-in recess	60 cm	60 cm
Depth	57 cm	57 cm
Weight	Max. 56 kg	Max. 62 kg
Voltage	230 V	230 V
Connected load	2200 W	2200 W
Fuse rating	10 A	10 A
Test certificates awarded	KEMA, VDE, radio and television suppressed	KEMA, VDE, radio and television suppressed
Water pressure (flow rate)	30 - 1000 kPa (0.3 - 10 bar)	30 - 1000 kPa (0.3 - 10 bar)
Hot water connection	Max. 60 °C	Max. 60 °C
Delivery head	Max. 1 m	Max. 1 m
Drainage length	Max. 4 m	Max. 4 m
Mains cable	approx. 1.7 m	approx. 1.7 m
Capacity	13/14 place settings*	13/14 place settings*

* depending on model

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